

1998

3-WAY SERVICE



THE NEW

Janitrol

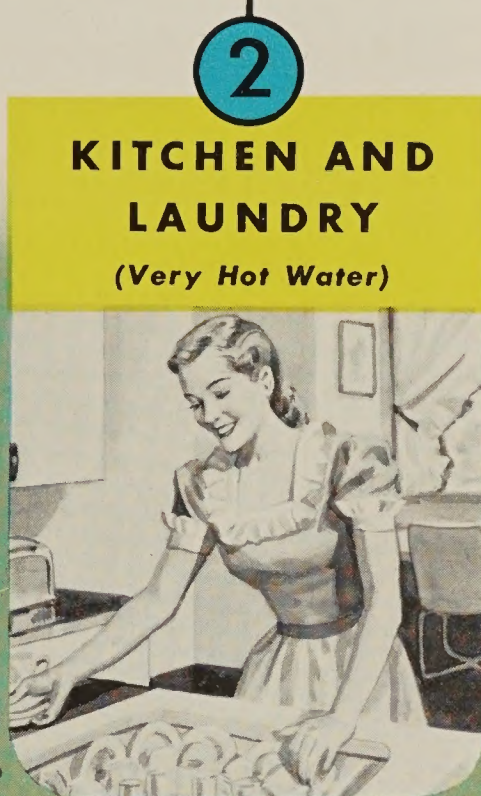
TRIPLE SERVICE

HOT WATER
HEATING SYSTEM



Janitrol's beauty, simplicity and compactness of design is harmony in any setting, whether sportsman's den, recreation or utility room.

Now... A SINGLE HEATING UNIT PROVIDES ADEQUATE HOT WATER FOR:



INTRODUCING *Janitrol*... THE NEW, VERSATILE GAS OR OIL FIRED SYSTEM THAT'S MAKING FRONT PAGE NEWS!

*Meets today's standards of modern living by providing complete
heating comfort and domestic hot water needs*

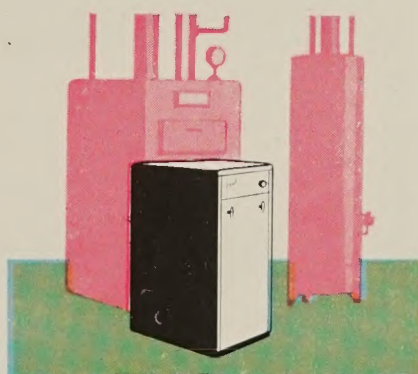
★ With the new Janitrol Triple Service System, *one heating unit* meets every hot water need *with an extra advantage!*

For comfort heating, water is mechanically circulated to individual room heating unit (convectors) supplying satisfying comfort in even the most hard to heat rooms. Where radiant panel heating is specified, the unit is equally well adapted for use with either wall, ceiling or floor panels.

The extra advantage . . . you can forget all the old-fashioned ideas about installing separate units for home heating and for hot water requirements.

Ordinary water heaters supply hot water at about 140° F., which is satisfactory for mixing with cold water for personal use.

But, the modern, automatic type of



COMPACT

● One unit for all hot water services. A typical, three bedroom, average size house only requires 2' x 3½' of floor area — a real saving under prevailing construction costs.

clothes washers and dishwashers require hotter water for proper* operation . . . Janitrol supplies this higher temperature hot water, *automatically*. You don't have to be continually fussing with changing the controls on your water heater for different temperatures of hot water as your needs change — and — no matter how much of the water you use, you'll still have plenty left at every hour for every need.

Because of its extreme compactness, design and high efficiency, the Janitrol Triple Service System can be conveniently located anywhere in the basement or in a basement-less house in the utility room, a closet, attic, kitchen or adjoining garage.

**Modern research shows that high temperature water gives better results — a whiter wash with less soap.*

Outstanding Design and Construction Features THAT

★ Although the Janitrol Triple Service System is a revolutionary new development, its design is based on proven principles. In addition, hundreds and hundreds of installations have demonstrated its complete practicability. Owners are enthusiastic in their endorsements of Janitrol's contribution to greater home comfort and convenience at no extra expense.

The design and construction features shown on these two pages graphically illustrate why you can depend on Janitrol for long life and trouble-free performance.

1 → Heating Coil

Domestic Hot Water Copper Heating Coil passes through removable plate to facilitate the easy removal of the coil for cleaning or replacing. Coil design also assures constant supply of high temperature water.

2 → Flue Tubes

Rapid heat transfer is increased by use of special-type, spiral baffled flue tubes as combustion gases pass through these tubes to the flue.

3 → Closed System

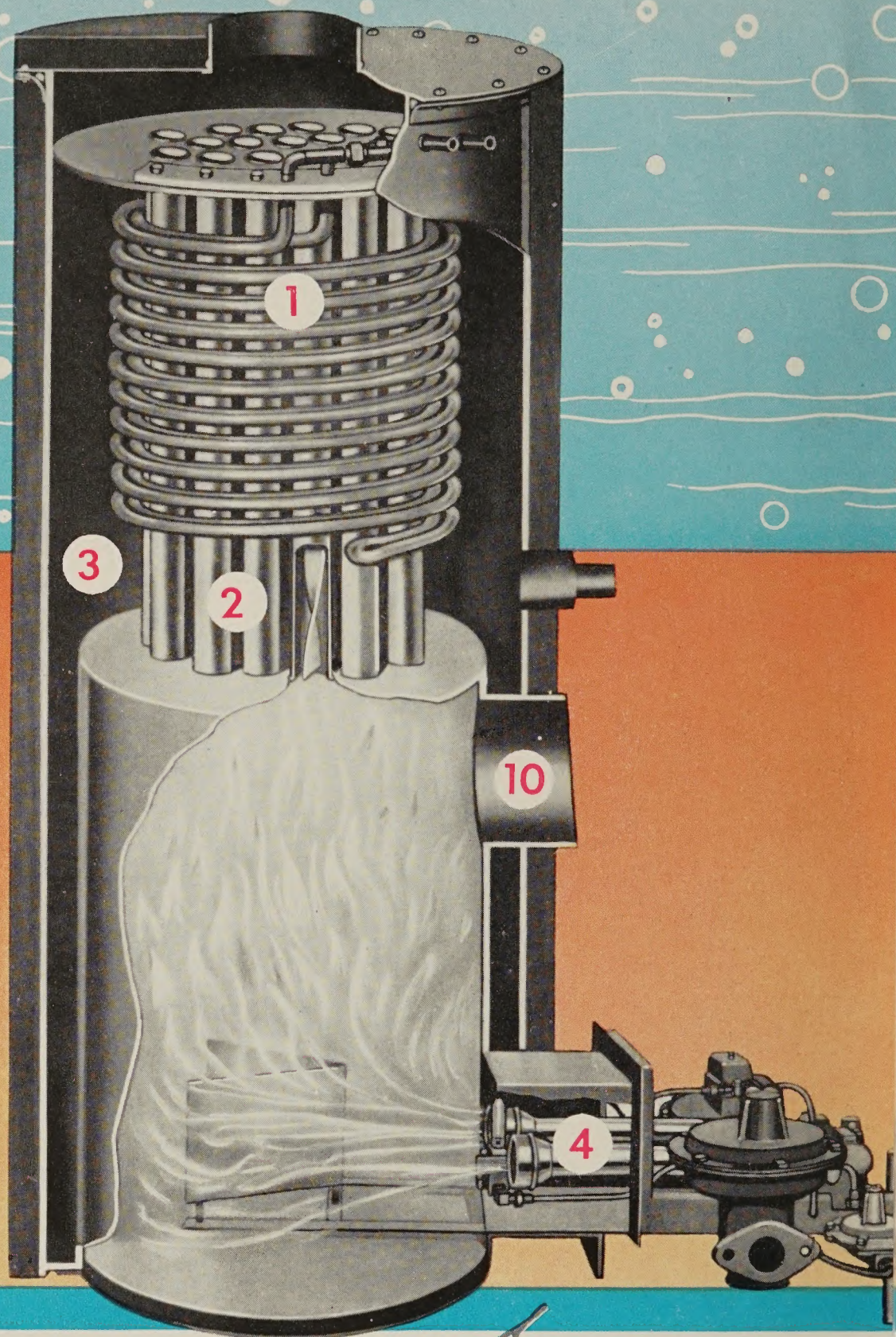
Water (surrounding combustion chamber) for comfort heating is circulated in a completely closed system for fast heating and economy. This also makes it possible to treat the water to reduce scaling where this is a local problem.

4 → Dual Burner

The famous time-proven Janitrol Dual Burner supplies highly efficient combustion to the water-surrounded combustion chamber.

5 → Completely Assembled

All Janitrol Triple Service Heating Units are completely assembled and tested to check rated output capacities—your assurance of dependable performance from the very minute the unit is put into operation.

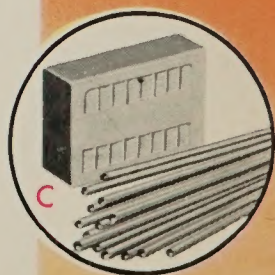
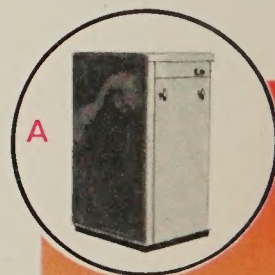


...AND Janitrol COME THE CONVENIENT "PACKAGE" SYSTEM...RE

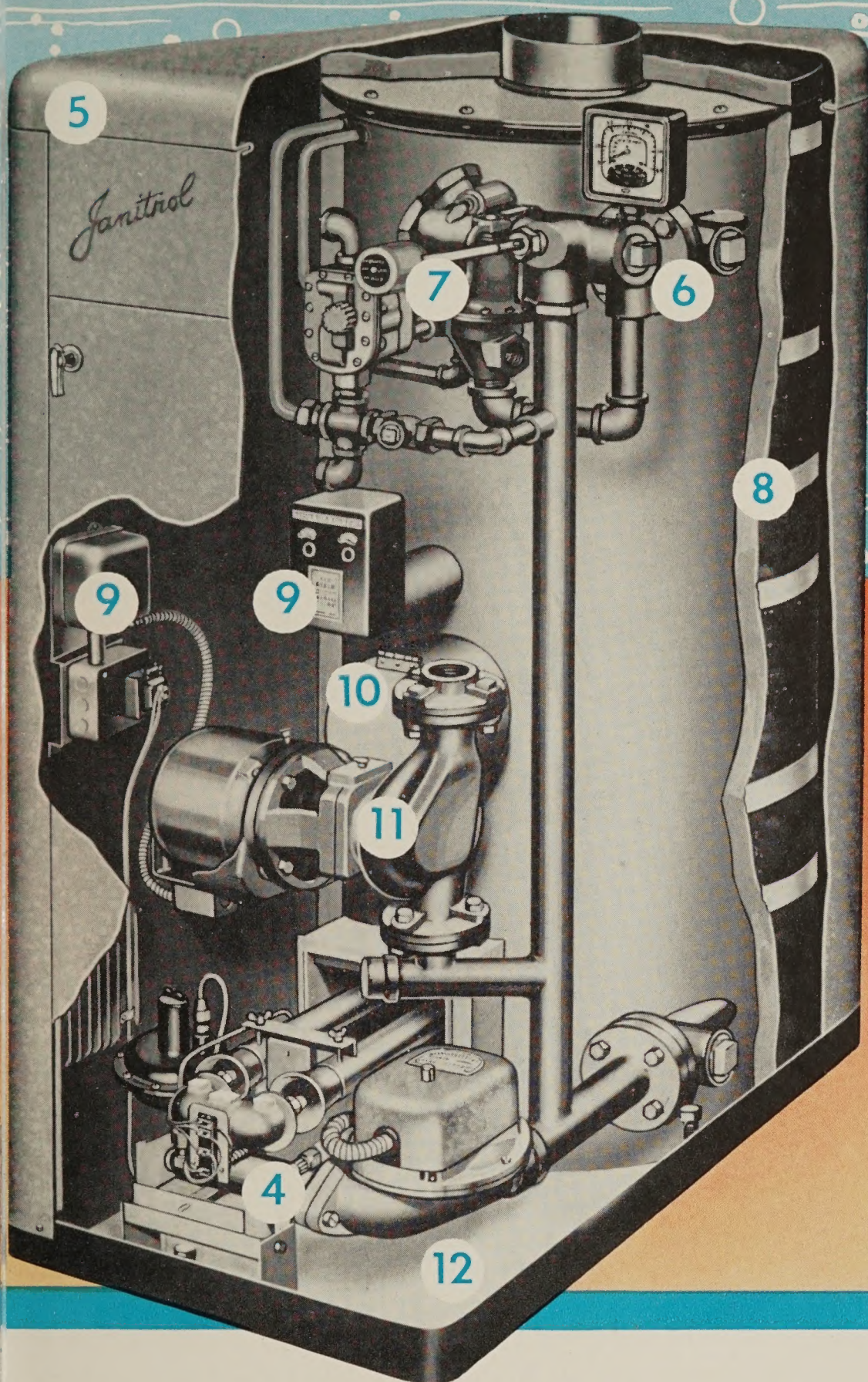
★ After your house plans have been studied, heat losses calculated and the heating layout blue-printed, your Janitrol dealer writes detailed specifications for the complete installation.

If convectors are to be used, the correct size for each room is specified and all tubing and connections included in the factory package.

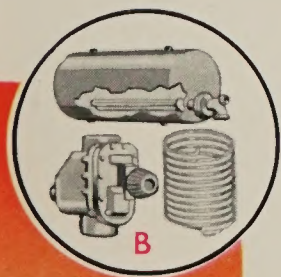
Where radiant heating is specified, all the necessary tubing with couplings, fittings, etc., are standard. Application work goes smoothly, with a minimum of special adapting on the site of the installation.



... A CONVINCING STORY OF ENGINEERING "KNOW-HOW"!



TO YOU COMPLETE!
... TO INSTALL TO YOUR SPECIFICATIONS



A & B—Triple Service Boiler as delivered ready for installation — complete with Jacket, Tuning Control, Draft Divertor, Heat Generating Unit, Domestic Hot Water Coil, Electric Motor and Water Circulating Pump, and the time proven Janitrol Gas Dual Burner.

C—Package includes a complete set of carefully sized convector radiators and sufficient distribution tubing to provide individual supply and return lines to each convector radiator and for all domestic hot water needs.

D—For Installation: Full supply of fittings, joints, fabricating parts, including tube straps, flux, solder.



6 → Valves and Fittings

All valves and fittings are easily accessible to make quick connections and necessary adjustments. This simplifies the original installation work, and makes future servicing easy.

7 → Control Dial

Heat-tuning Control Dial mounted on front of cabinet . . . control operates mixing valve that properly proportions hot and cold water thus securing correctly tempered mixture, to compensate for or anticipate any sudden weather changes. Tuning valve does not interfere with the automatic operation of the unit nor does its operation affect in any way the always-hot water for domestic uses.

8 → Insulation

Unit is completely insulated with a thick jacket of glass wool to prevent heat loss. This helps operating economy and prevents heat transmission to outer cabinet.

9 → Control Assemblies

All control assemblies are totally enclosed . . . your protection against tampering. Streamlined appearance of the complete unit makes an attractive addition to any room.

10 → Inspection Door

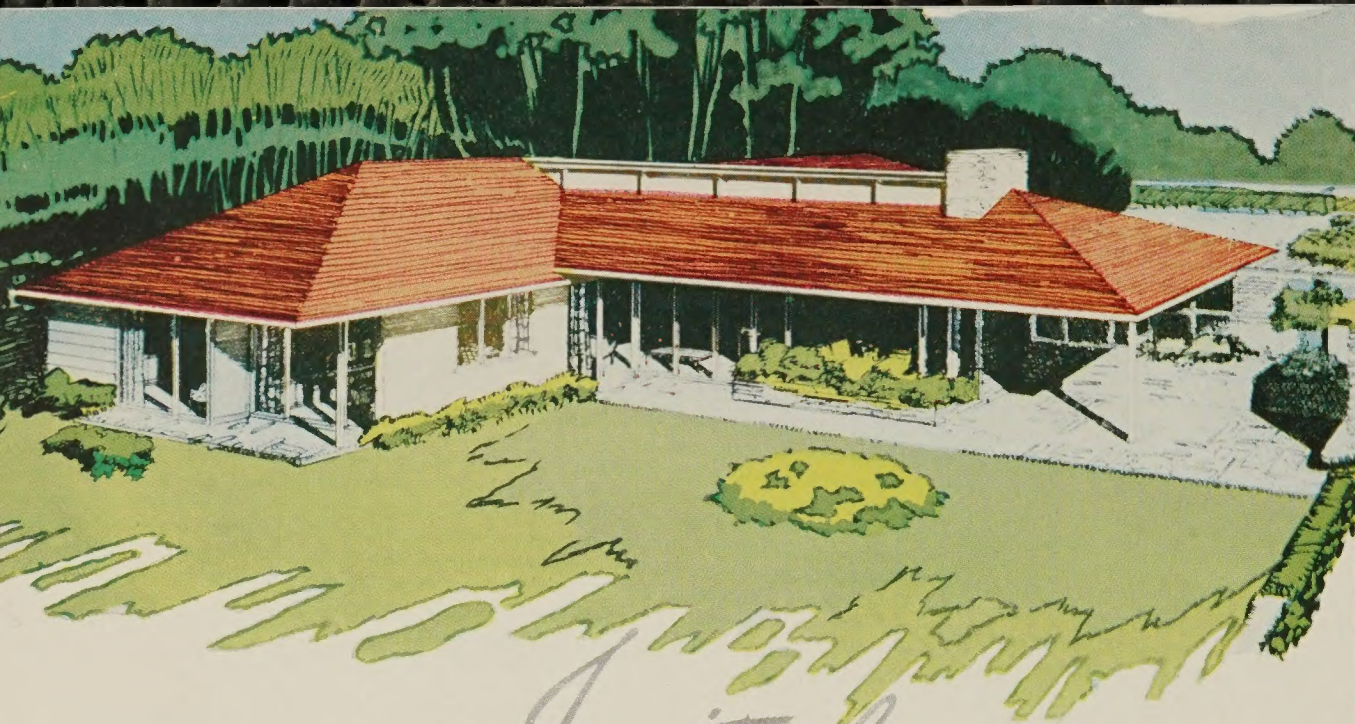
Inspection door on the combustion chamber can be opened to permit examination of the combustion flame to check operating efficiency.

11 → Service or Replacement

Electric motor, circulating pump and entire water control assembly can be easily and quickly removed for service or replacement.

12 → Three Models

Units are available in three models for gas or oil firing — 100,000, 150,000, 210,000 Btu per hour input. The complete units and all controls for gas are fully A.G.A. approved and rated.



Janitrol...

**AS ADVANCED AS THE HOME
IT IS DESIGNED TO SERVE . . . EQUALLY
SUITABLE FOR THE MODERN, RAMBLING RANCH
TYPE HOUSE, THE MORE CONVENTIONAL
TWO-STORY TYPE OR SINGLE AND
MULTI-DWELLING STRUCTURES.**

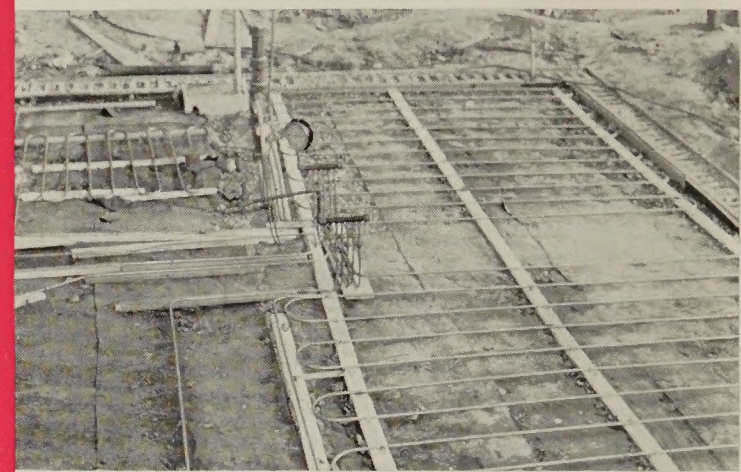
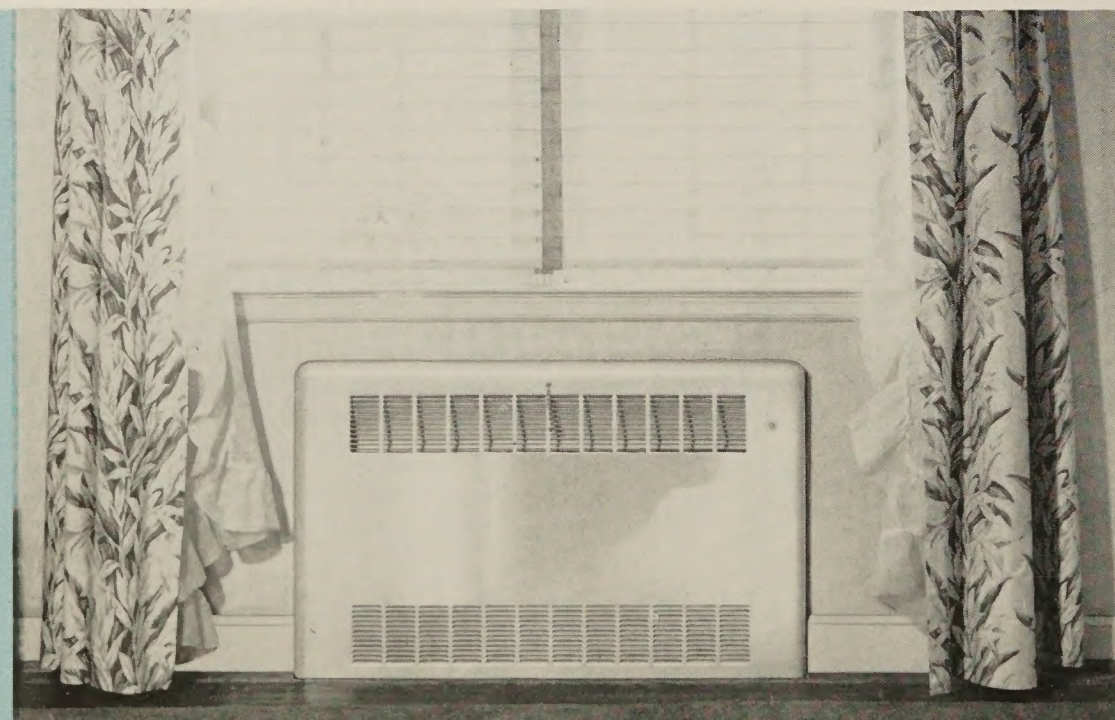
★ The architect, builder and the home owner all benefit from the advantage of being able to install a Janitrol where it is most convenient *from the floor plan arrangement.*

If your house plans do not require a basement, the unit can be placed where it will take up the least usable floor space . . . floor plans *do not* have to be changed to make a practical installation.

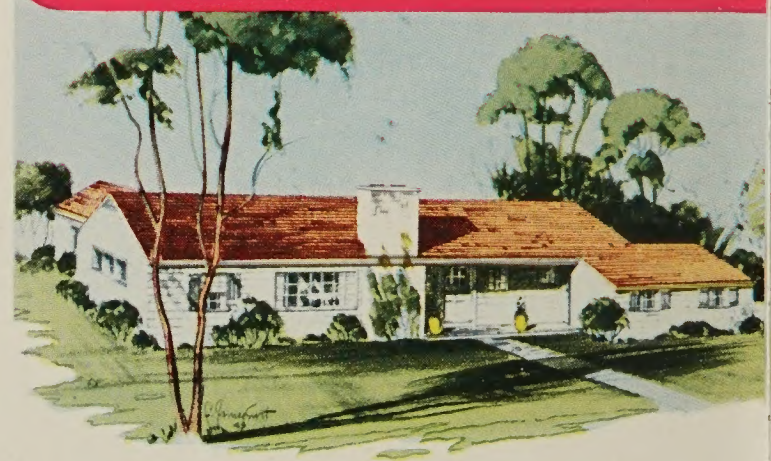
So, wherever the unit is placed, under a stairway, in a closet, utility room, or adjoining garage, you'll always get dependable, low-cost, and efficient heating. Because Janitrol utilizes the forced circulated hot water principle, uniform heating is assured in all rooms, even those farthest removed from where the unit is installed.

Janitrol's

**SPACE-SAVING, SEMI-RECESSED CONVECTORS GIVE GREATER
ARCHITECTURAL FREEDOM..
BEAUTY..SIMPLICITY**



★ When home plans call for radiant panel heating, the Janitrol Triple Service Unit simplifies installation work. Factory assembly and testing assure proper adjustment. By providing all necessary controls, piping and other accessories, the system is completely tailor-made to your particular job. Using circulated hot water, installations are equally as practical for floor, wall or ceiling applications.



★ Modern convectors, because of their greater radiating efficiency, are more compact, they can be recessed in the wall, fitted snugly under windows, permitting more free wall and floor space for the arrangement of furniture.

The cores and radiating fins of Janitrol convectors are enclosed in attractive streamlined housings; there are no corners to act as dust collectors. The photograph at the right shows a typical room installation.

Janitrol's ENGINEERING AND LABORATORY FACILITIES ARE AMONG THE MOST MODERN AND COMPLETE IN THE HEATING INDUSTRY" ASSURING YOU THE UTMOST IN EFFICIENCY, ECONOMY AND LONG-LIVED, TROUBLE-FREE SERVICE.

★ For more than 31 years, Surface Combustion engineers have led in designing, developing and manufacturing the most advanced types of gas-heating and heat treating equipment.

Janitrol has always pioneered the newest developments in heating. The equipment has always incorporated advanced features — not just gadgets but fundamental improvements as a result of extensive research and development.

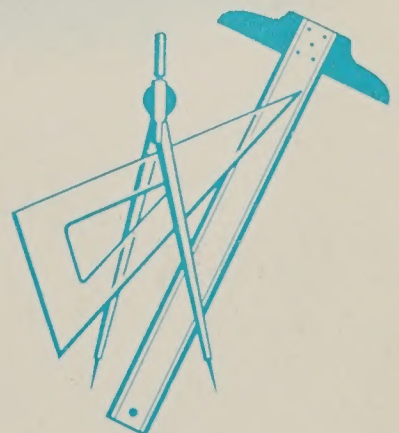
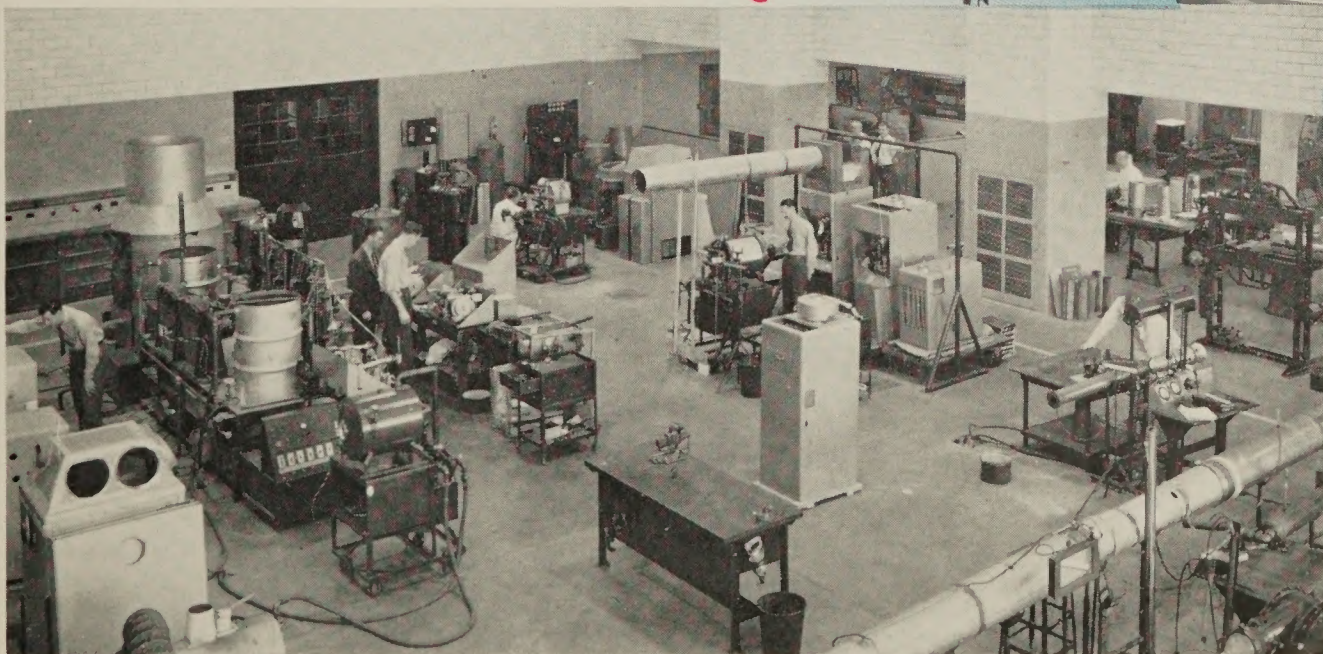
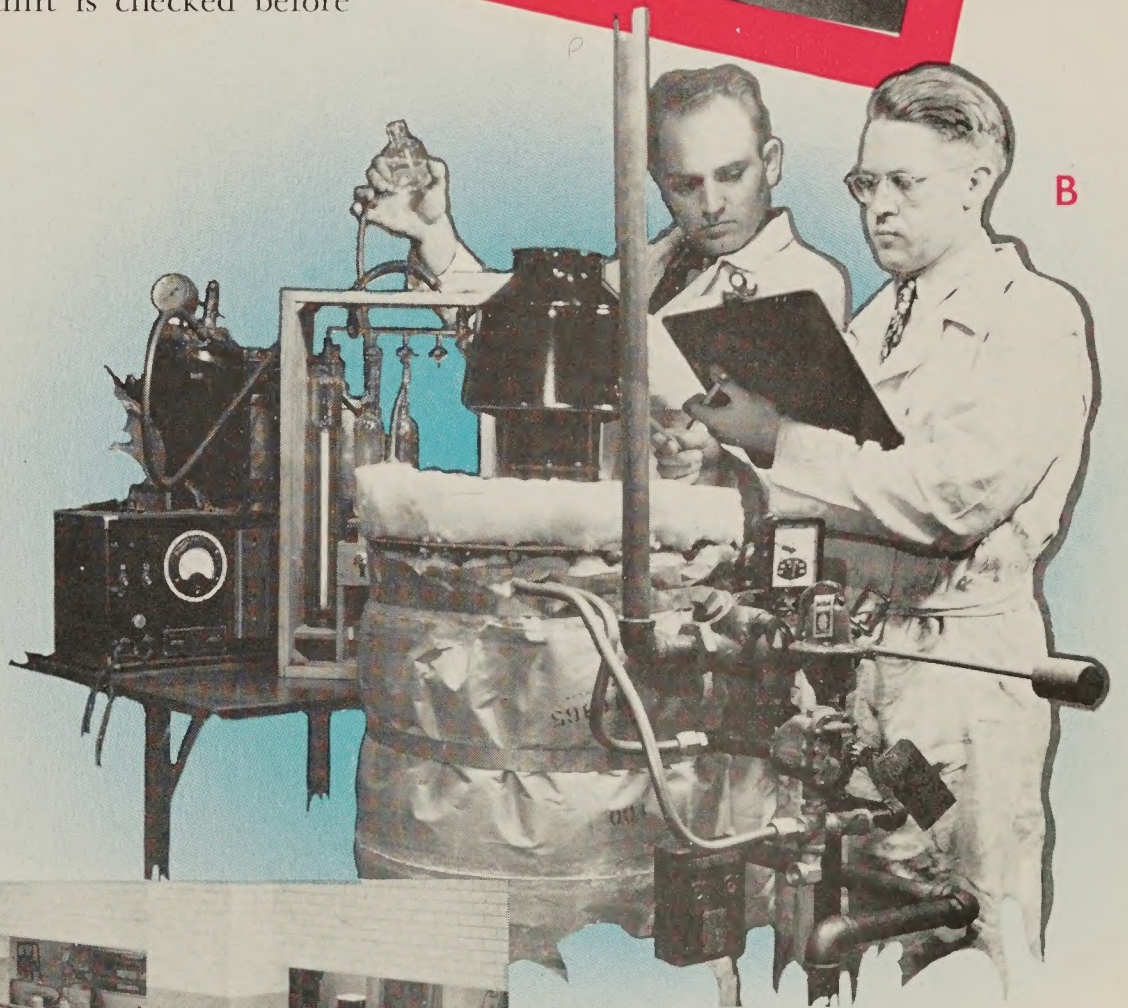
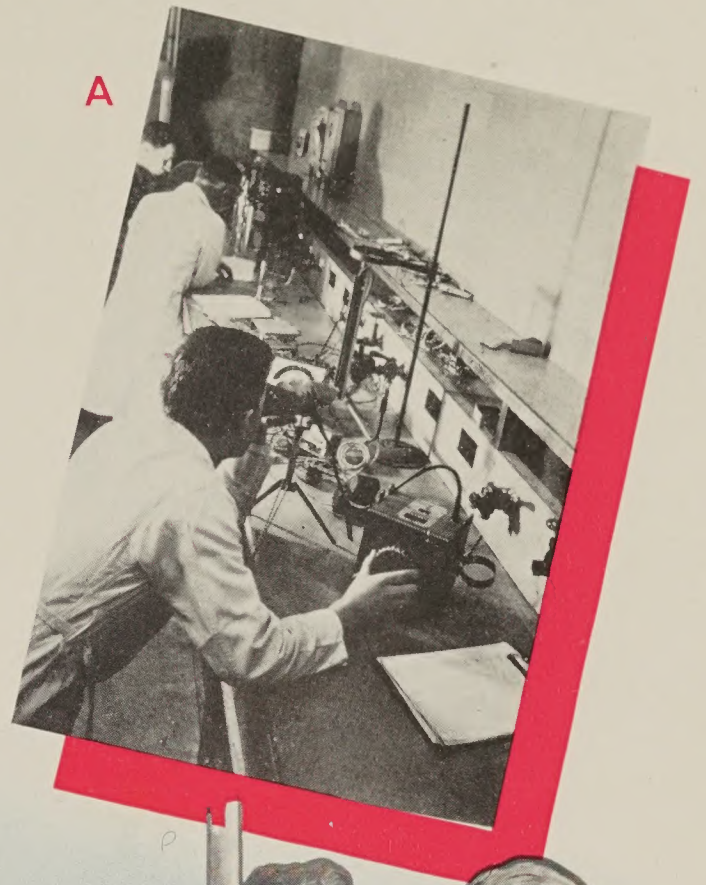
This engineering is conducted in one of the largest, most elaborately equipped laboratories in the country. The pictures on this page only partially illustrate the many varied tests and studies that are continually carried on day after day. (Every unit is checked before shipment.)

No matter what type of heating equipment . . . winter air conditioners, gravity furnaces, boilers, or conversion burners . . . every unit with the Janitrol name plate is the finest engineered piece of equipment it is possible to produce.

A—LIFE EXPECTANCY TESTS—*Any given part of a Janitrol product is tested by means of scientific instruments for durability and length of life.*

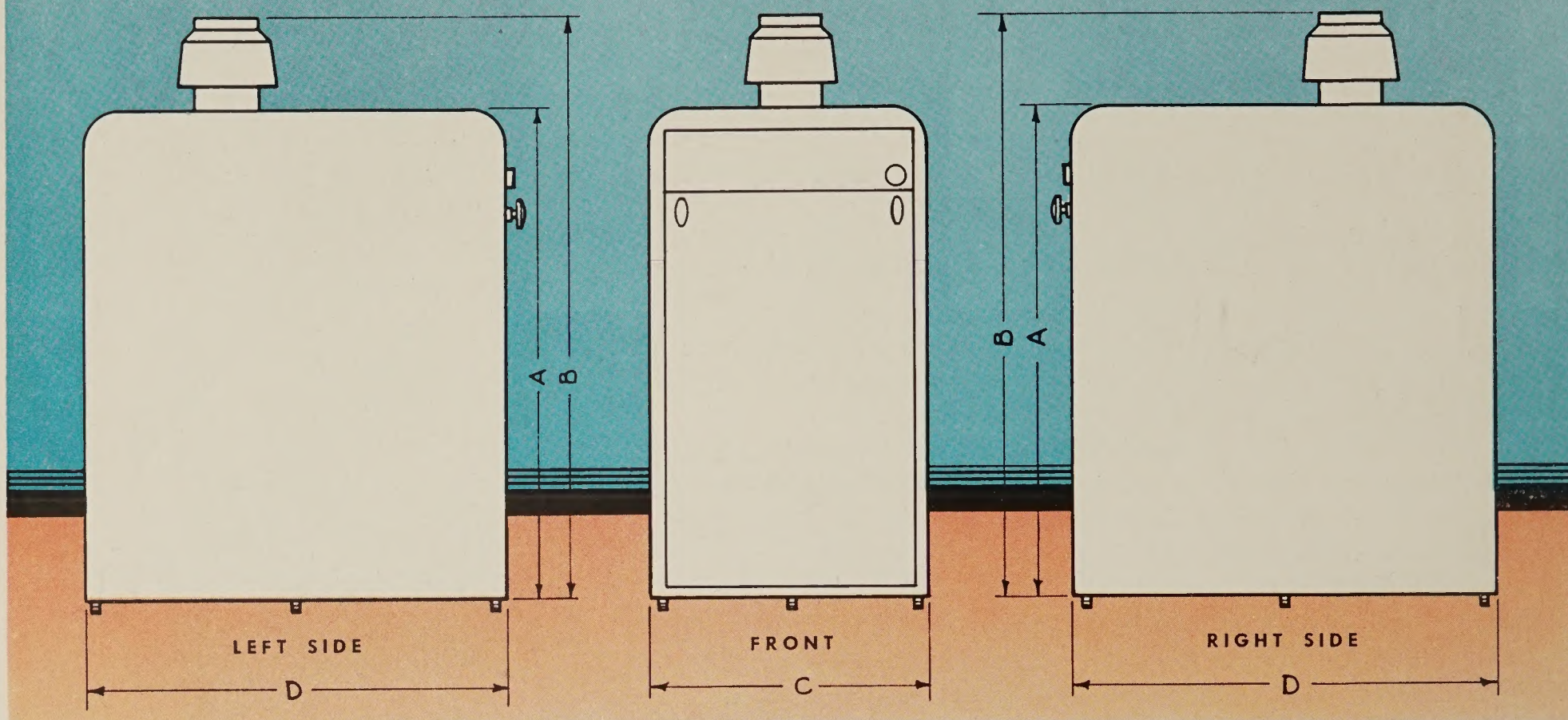
B—COMBUSTION TESTS—*Heater flue gases are analyzed for carbon dioxide and monoxide to determine combustion efficiency.*

C—EXTENSIVE TESTING LABORATORY—*The last word in "labs," it contains every modern facility for thoroughly testing and operating all types of new and regular line Janitrol products under actual installation conditions.*



S P E C I F I C A T I O N S

Dimensions and Engineering Data



★ MODEL NUMBER (For Gas Firing)—————→			WAS-100-64	WAS-150-64	WAS-210-64
A	Height of Unit	Inches	45"	52"	54"
B	Height	Floor to top of draft diverter	57½"	65¾"	69⅝"
C	Width of Unit	Inches	22 ³ / ₁₆ "	24 ³ / ₁₆ "	26 ³ / ₁₆ "
D	Depth of Unit	Inches	39 ³ / ₁₆ "	41 ³ / ₁₆ "	41 ³ / ₁₆ "
Heat Input		Btu/hr.	100,000	150,000	210,000
Certified A.G.A. Rating		Sq. ft. Water Radiation (150 Btu Emission)	530	800	1120
*Recommended Net Load		Btu/hr.	68,000	102,000	142,000
Instantaneous Water Heater		High Temp. Rating G.P.H. thru 100° F. Rise	90	135	185
Instantaneous Water Heater		Temp. Water Rating G.P.H. thru 50° F. Rise	180	270	370
Approximate Shipping Weight		Pounds	690	865	960

NOTE: *Recommended net load rating is based on an allowance of 15% for piping loss and pickup. This assumes that standard Triple Service Installation Manual recommendations are followed.

★ The general specifications above, with the exception of certified A.G.A. rating and shipping weight listings, apply to both oil and gas fired units. Complete specifications sent on request.

